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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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1SS270

Silicon Epitaxial Planar Diode for High Speed Switching



ADE-208-165B (Z)

Rev.2 Oct. 2000

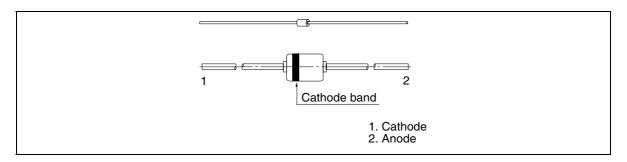
Features

- Low capacitance. (C = 3.0 pF max)
- Short reverse recovery time. $(t_{rr} = 3.5 \text{ ns max})$
- Small glass package (MHD) enables easy mounting and high reliability.

Ordering Information

Type No.	Cathode band	Package Code
1SS270	Light Blue	MHD

Pin Arrangement



1SS270

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit	
Peak reverse voltage	V _{RM}	35	V	
Reverse voltage	V _R	30	V	
Average rectified current	I _o	150	mA	
Peak forward current	I _{FM}	450	mA	
Non-Repetitive peak forward surge current	FSM *	1	А	
Power dissipation	Pd	250	mW	
Junction temperature	Tj	175	°C	
Storage temperature	Tstg	-65 to +175	°C	

Note: Within 1s forward surge current.

Electrical Characteristics

 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	0.8	V	I _F = 10 mA
Reverse current	I _R	_	_	1.0	μΑ	V _R = 30 V
Capacitance	С	_	_	3.0	pF	V _R = 1 V, f = 1 MHz
Reverse recovery time	t _{rr}	_	_	3.5	ns	$I_{F} = 10 \text{ mA}, V_{R} = 6 \text{ V}, R_{L} = 50 \Omega$

Main Characteristic

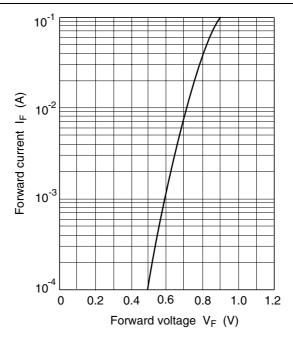
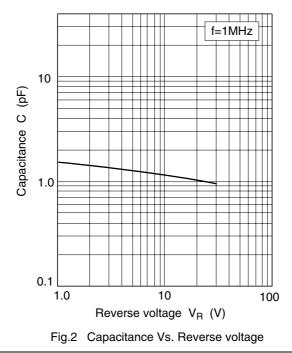
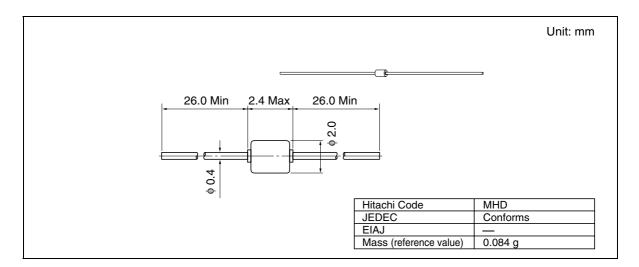


Fig.1 Forward current Vs. Forward voltage



1SS270

Package Dimensions



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